DirectPort-USB
USB-Serial Converters
User Guide

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Sena Technologies, Inc.

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Trademark

Windows® is a registered trademark of Microsoft Corporation.

Notice to Users

When a system failure may cause serious consequences, protecting life and property against such consequences with a backup system or safety device is essential. The user agrees that protection against consequences resulting from system failure is the user's responsibility.

This device is not approved for life-support or medical systems.

Changes or modifications to this device not explicitly approved by Sena Technologies will void the user's authority to operate this device.

Precautions and Safety

Do not drop or subject the device to impact. Damage to your products may result from improper use.

Keep away from harsh environments including humid, dusty, and smoky areas. Damage to your products may result from improper use.

Do not attempt to disassemble the device. Damage to your products may result from improper use.

Do not place heavy objects on the product. Damage to your products may result from improper use.

Contact Information

Technical support email: support@sena.com

Company website: http://www.sena.com

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1. Overview

DirectPort-USB is a high performance USB-to-Serial converter designed to provide serial connectivity (COM port) via USB port. Users can easily add serial ports to PCs without or limited native serial ports. DirectPort-USB supports RS232 or RS422/485 up to 921.6 Kbps and provides ESD protection up to ±15KV.

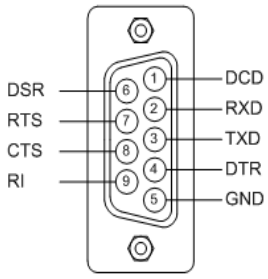
2. Specifications

Serial speed	Up to 921.6 Kbps
Communication distance	RS232 up to 15m, RS422/485 up to 1.2 Km
RS422/485 multi-drop	Up to 127 nodes
Bus interface	USB 2.0
Line interface	RS232 or RS422/485
UART controller	16C550
Connector	DB9 male
LED	Tx, Rx
Dimension	33.4 mm X 61.0 mm (1.31 in X 2.40 in)
Weight	70 g
Surge protection	Up to ± 15KV
Power	Using USB interface power (no external power required)
Supported OS	Windows 98/98SE/ME/2000/XP/2003 Windows Vista/Longhorn Windows XP 64bit Windows XP Embedded Windows CE.NET 4.2 & 5.0 Windows Vista 64 bit Windows 7 Windows 7 64 bit Mac OS 8/9, OS-X Linux 2.4 and greater (*)
Approval	CE, FCC
Warranty	1-year limited warranty

*: If you would like to use DirectPort-USB for Linux, please contact **support@sena.com**

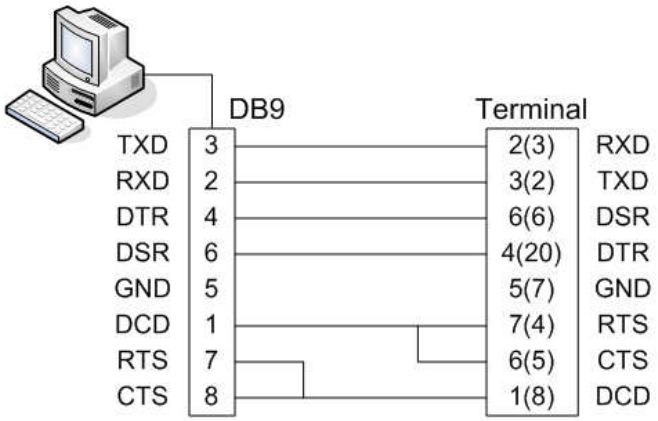
3. DirectPort-USB UC1 Settings

3.1 DB9 Male Connector



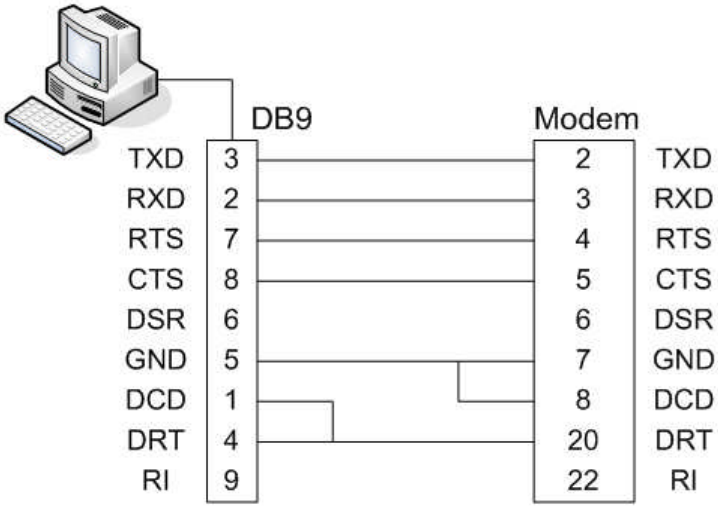
DB9 Male

3.2 Line Connection for Terminal



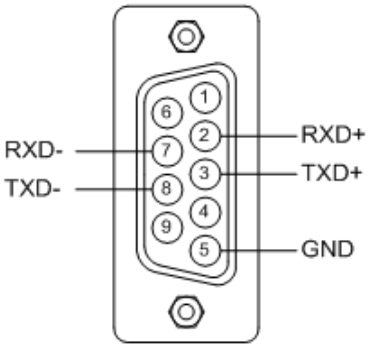
When using 2, 3, 5 only, loop-back each 7-8(4-5), 1-4-6(6-8-20). (numbers in parentheses are for DB25 connector.)

3.3 Line Connection for Modem



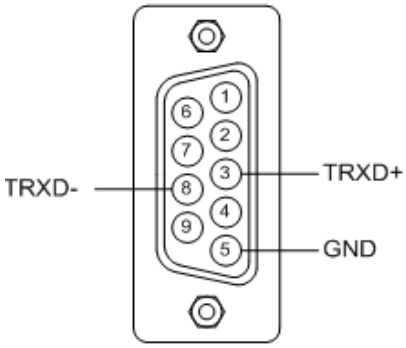
4. DirectPort-USB UC1B (RS422/485) Settings

4.1 DB9 Male Connector



DB9 Male

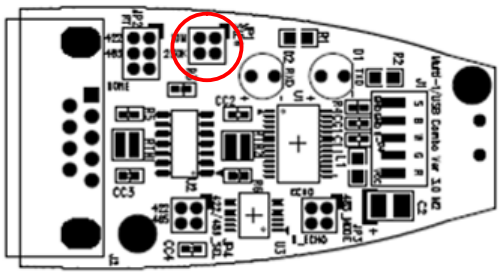
RS422 →

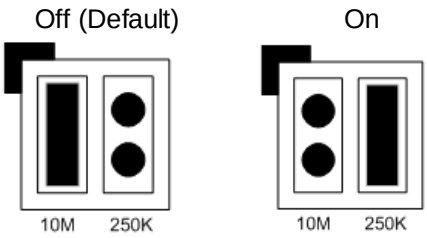


DB9 Male

RS485 →

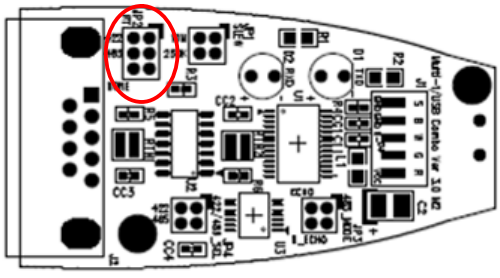
4.2 JP1 Slew: RS422/RS485 Slew Rate Limit Function Settings

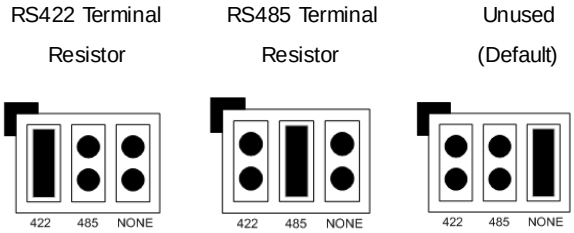




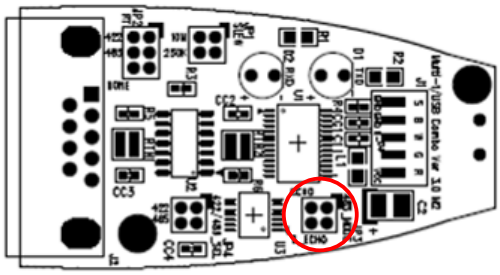
- Select 'Slew Rate Limit function on' to reduce electromagnetic waves. Maximum serial communication speed is restricted to 250Kbps when this function is on.
- Slew Rate Limit allows communication without errors by activating slew-rate driver to reduce reflection waves and EMI electromagnetic waves. However, communication speed is limited when it is used.

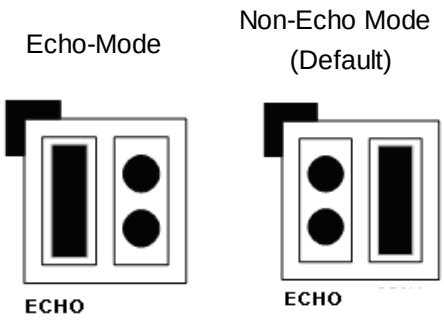
4.3 JP2 RT: RS422/RS485 Terminal Resistor Settings



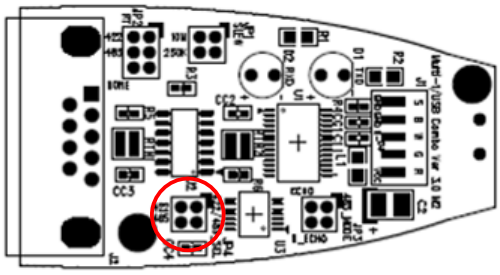


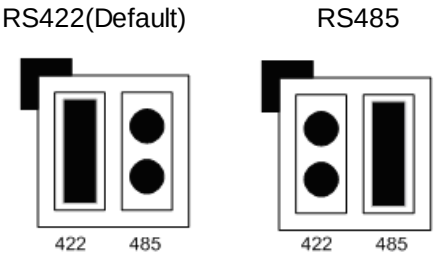
4.4 JP3 RT: RS485 Echo/Non-echo Mode Settings





4.5 JP4 422/485 SEL: RS422/RS485 Interface Settings

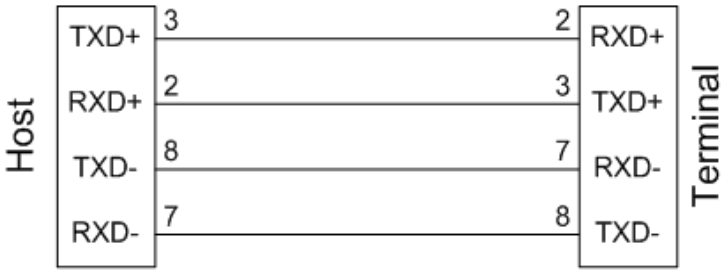




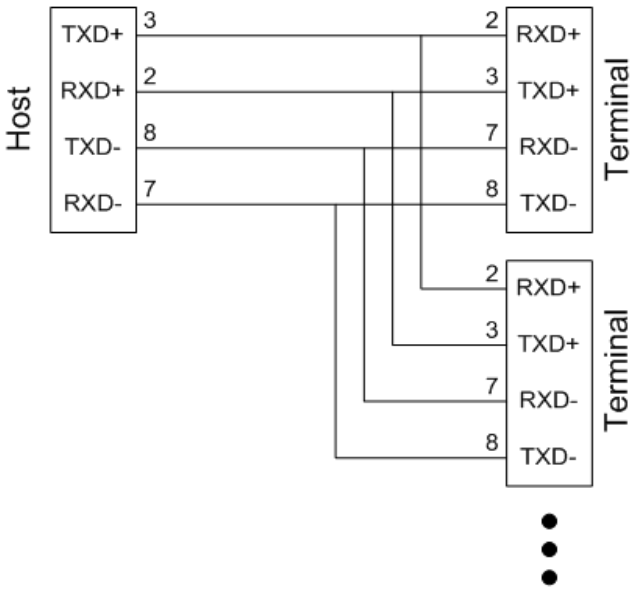
4.6 RS422 Point-to-Point/Multi-Drop Settings

- DirectPort-USB support auto-toggling data transfer, so there are no hardware settings.

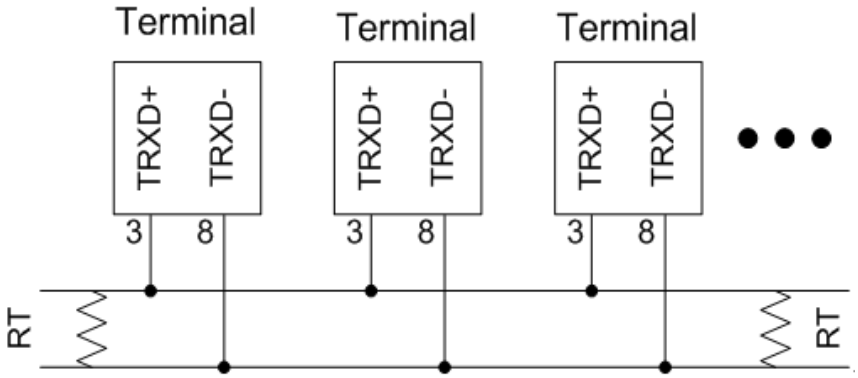
4.7 Line Connection for RS422 Point-to-Point



4.8 Line Connection for RS422 Multi-Drop



4.9 Line Connection for RS485



- Terminal Resistor: 120 Ohm
- There is no distinction of host and terminal in RS485

5. Driver Installation for Windows 98

1. Run Windows 98.

2. Connect DirectPort-USB to the USB connector of the PC.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB Composite Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

3. Click “Next”.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

4. Click “Next”

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
D:\Win98
Browse...
< Back
Next >
Cancel

5. Check “Specify a location” and specify correct location of Windows 98 device driver. If you have the driver CD provided with DirectPort product, put it into the CD-ROM drive and specify the location of the driver as “D:\Win98”. Then click “Next”.

Add New Hardware Wizard
Windows driver file search for the device:
USB Composite Device
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\ICH2USB.INF
< Back
Next >
Cancel

6. Click “Finish” to complete the installation process.

7. Repeat steps 3-6 when “Add New Hardware Wizard” restarts.

6. Automatic Driver Installation for Windows

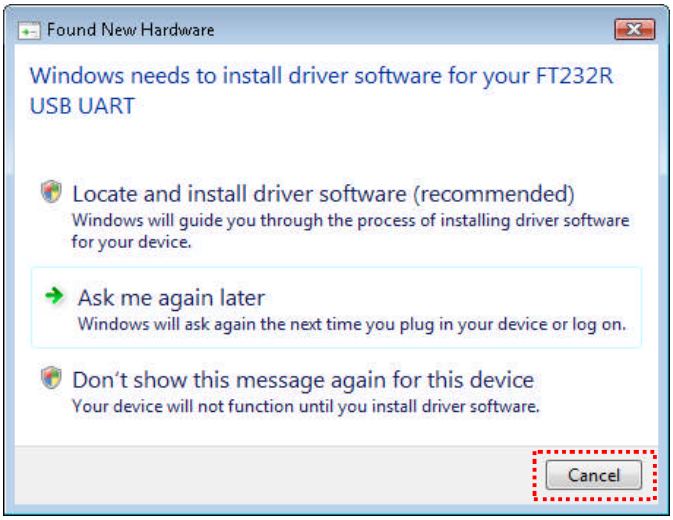
- This procedure applies to Windows 2000, XP, 2003, Vista, 2008 and Windows XP, 2003, Vista, 2008 x64. If you want to install device drivers manually, please refer to manual installation pages.

1. Run Windows.

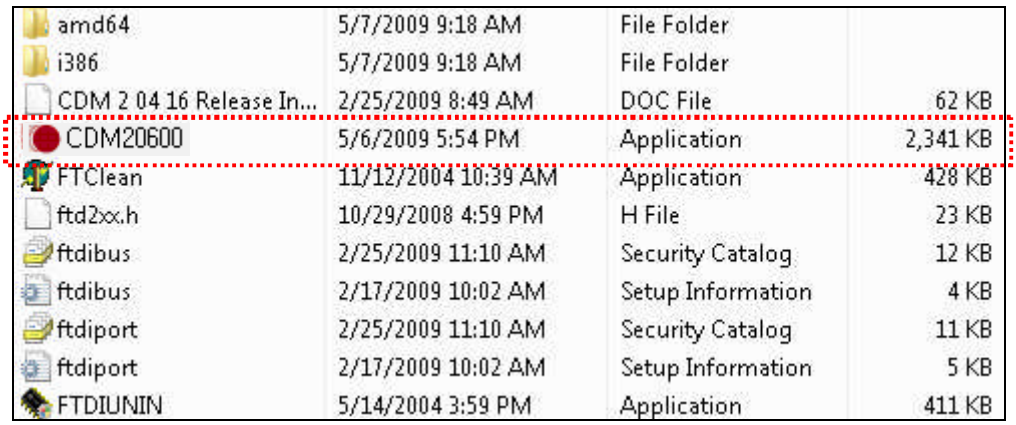
2. Connect DirectPort-USB to your PC's USB port.

3. Insert install CD into the CD-ROM drive.

4. If a "Found New Hardware" window appears, click "Cancel".

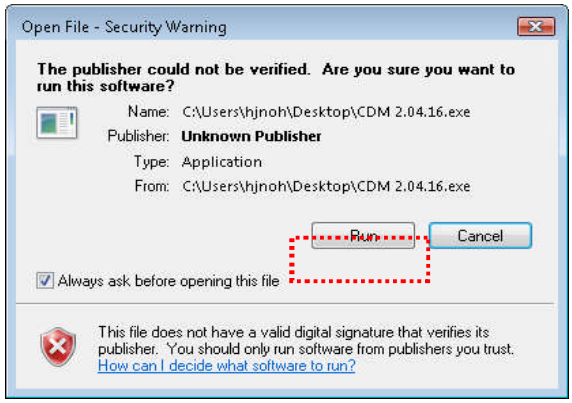

Found New Hardware
Windows needs to install driver software for your FT232R USB UART
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

5. Go to "[CD]\Win2000,XP,2003,Vista,2008,7". Execute "CDM20600".

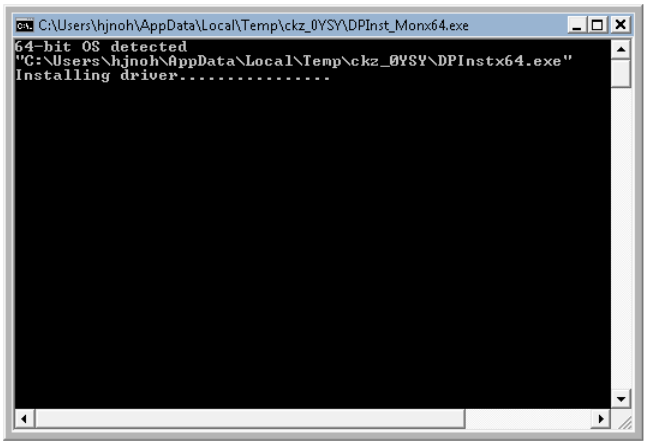


amd64	5/7/2009 9:18 AM	File Folder	
i386	5/7/2009 9:18 AM	File Folder	
CDM 2 04 16 Release In...	2/25/2009 8:49 AM	DOC File	62 KB
CDM20600	5/6/2009 5:54 PM	Application	2,341 KB
FTClean	11/12/2004 10:39 AM	Application	428 KB
ftd2xx.h	10/29/2008 4:59 PM	H File	23 KB
ftdibus	2/25/2009 11:10 AM	Security Catalog	12 KB
ftdibus	2/17/2009 10:02 AM	Setup Information	4 KB
ftdiport	2/25/2009 11:10 AM	Security Catalog	11 KB
ftdiport	2/17/2009 10:02 AM	Setup Information	5 KB
FTDIUNIN	5/14/2004 3:59 PM	Application	411 KB

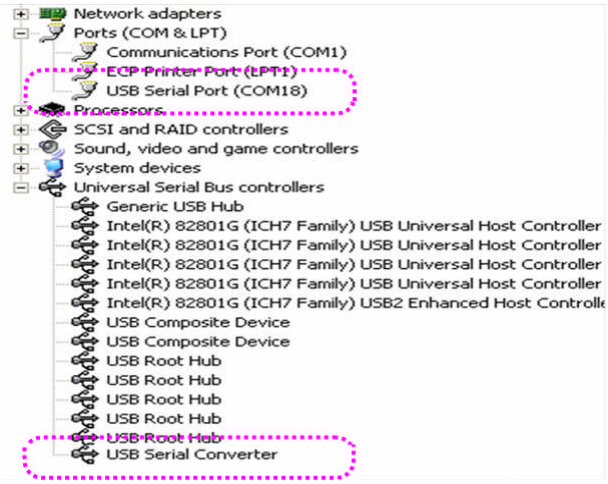
6. When the following windows appears, click “Run”.


Open File - Security Warning
The publisher could not be verified. Are you sure you want to run this software?
Name: C:\Users\hjnoh\Desktop\CDM 2.04.16.exe
Publisher: Unknown Publisher
Type: Application
From: C:\Users\hjnoh\Desktop\CDM 2.04.16.exe
Run
Cancel
Always ask before opening this file
This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust.
How can I decide what software to run?

7. Device drivers will be installed automatically.



8. After the installation is completed, the program will terminate. Go to “Control Panel” → “Device Manager” or right click “Computer” → “Device Manager” to open Device Manager. You will be able to see that “USB Serial Converter” and “USB Serial Port” is successfully installed.


Network adapters
Ports (COM & LPT)
Communications Port (COM1)
ECP Printer Port (LPT1)
USB Serial Port (COM18)
Processors
SCSI and RAID controllers
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controlle
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter

7. Manual Driver Installation in Windows 2000/XP/2003

- Install procedures for 64bit drivers are identical to 32bit drivers

1. Run Windows 2000/XP/2003.

2. Connect DirectPort-USB to your PC's USB port.

3. Insert install CD into the CD drive.

4. Select "No, not this time", then click "Next"

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

5. Select "Install software automatically (Recommended)", then click "Next".

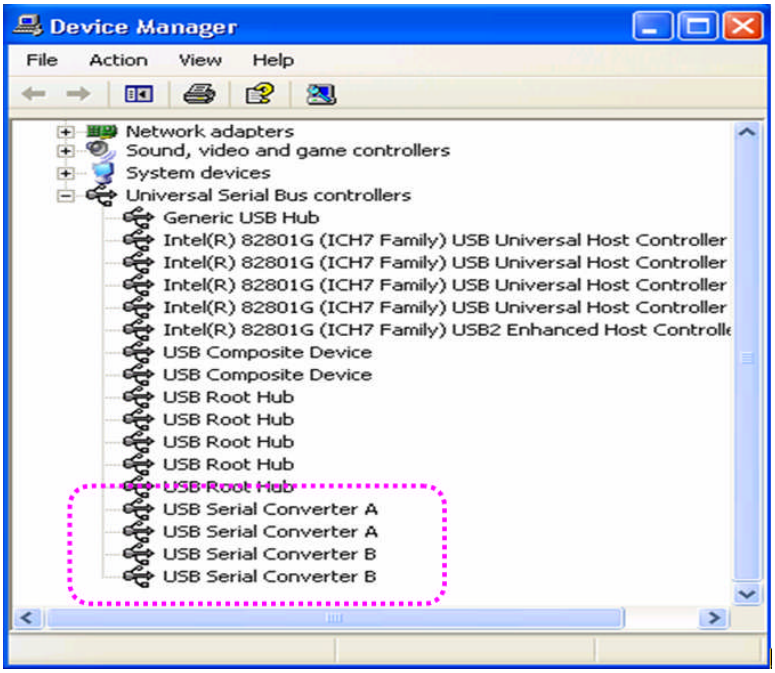
Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
USB <-> Dual Serial
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. Click “Finish”.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
USB Serial Converter A
Click Finish to close the wizard
< Back
Finish
Cancel

7. Steps 4 through 6 automatically install drivers in the CD. “USB Serial Converter” will all be automatically installed.

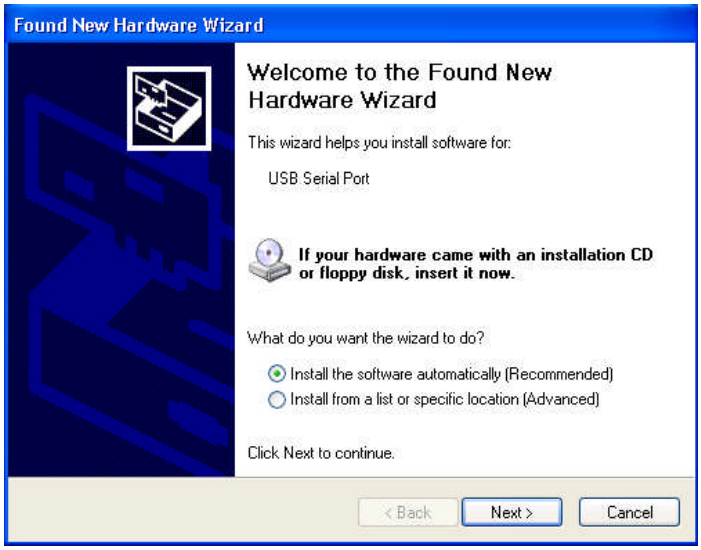
8. Following picture depicts “Device Manager” after step 7, As can be seen “USB Serial Converters” are successfully installed. The number of lines may vary depending on the product you are using.


Device Manager
File Action View Help
Network adapters
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controlle
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter A
USB Serial Converter A
USB Serial Converter B
USB Serial Converter B

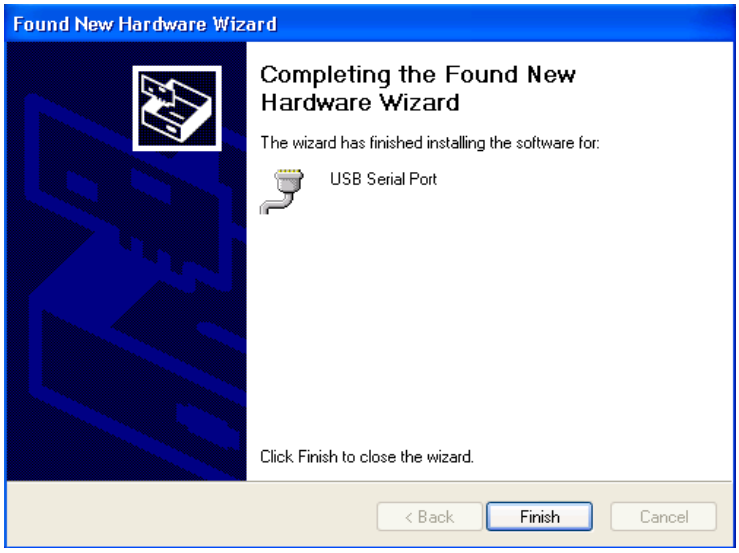
9. Select “No, not this time” to install “USB Serial Port”, then click “Next”

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

10. Following procedures will guide you through installing “USB Serial Port”. Select “No. Do not connect now”, and then click “Next”

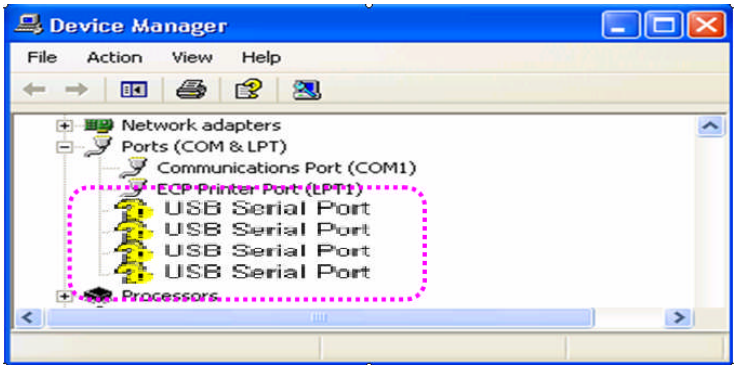

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
USB Serial Port
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

11. Click “Finish”

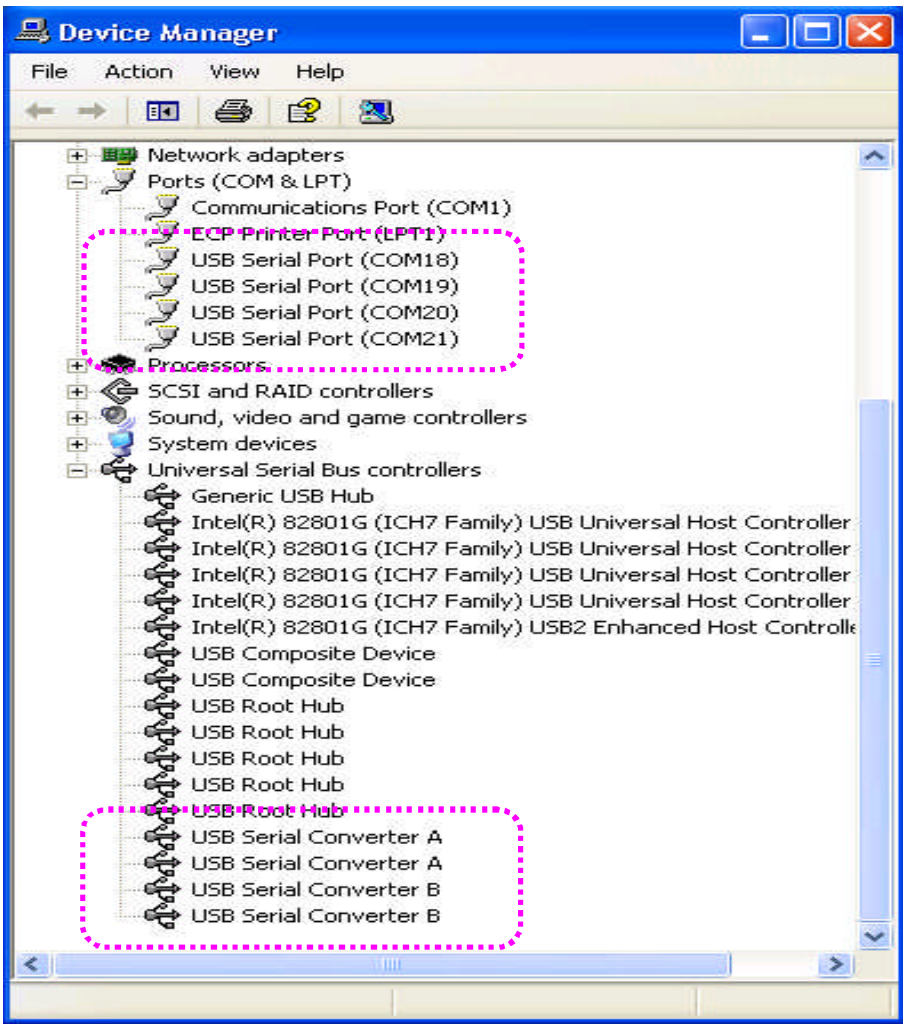


12. Steps 9 through 11 automatically install drivers in the CD. “USB Serial Port” will all be automatically installed.

13. Following picture depicts “Device Manager” before serial port installation, The number of lines may vary depending on the product you are using.



14. Following picture depicts “Device Manager” after carrying out all steps. As can be seen “USB Serial Converters” and “USB Serial Ports” are successfully installed.



15. DirectPort-USB installation on Window 2000/XP/2003 is now finished.

8. Manual Driver Installation for Windows Vista/2008

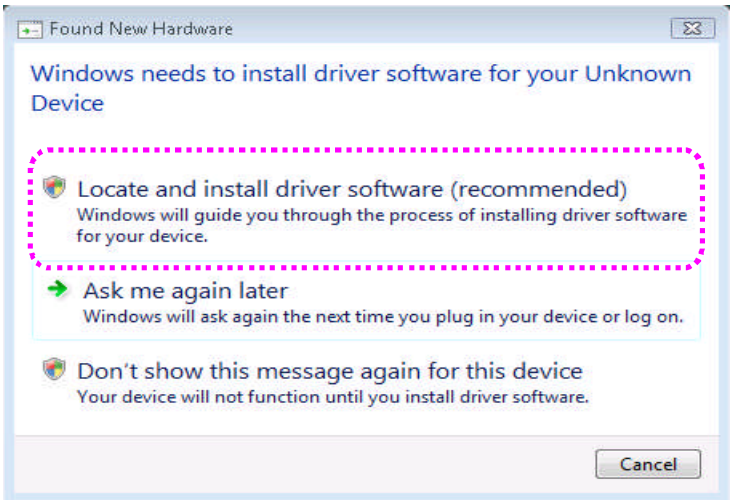
- Install procedures for 64bit drivers are identical to 32bit drivers

1. Run Windows Vista

2. Connect DirectPort-USB to your PC's USB port.

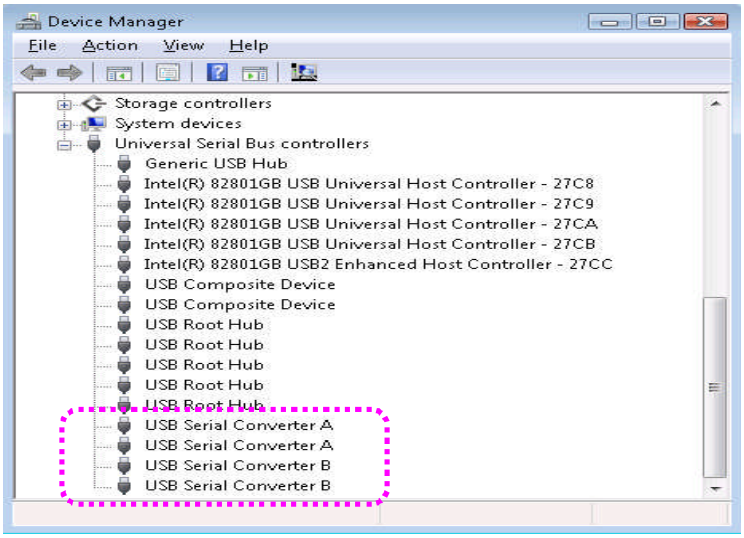
3. Insert media CD(provided with DirectPort) into the CD drive

4. Click "Locate and install driver software (recommended)" on the "Found New Hardware" window.

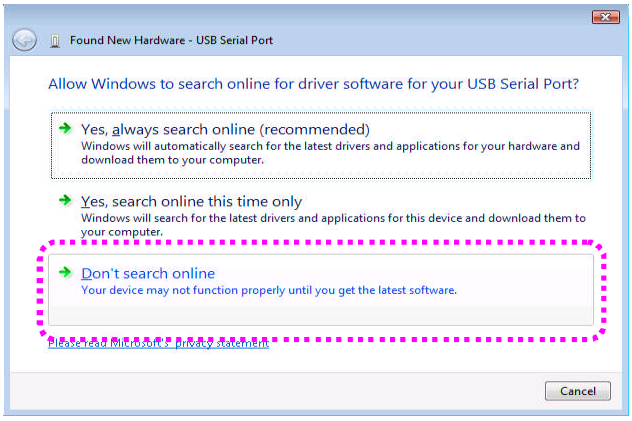

Found New Hardware
Windows needs to install driver software for your Unknown Device
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

5. Step 4 will automatically install drivers in the CD. Dual RS232 will automatically be installed.

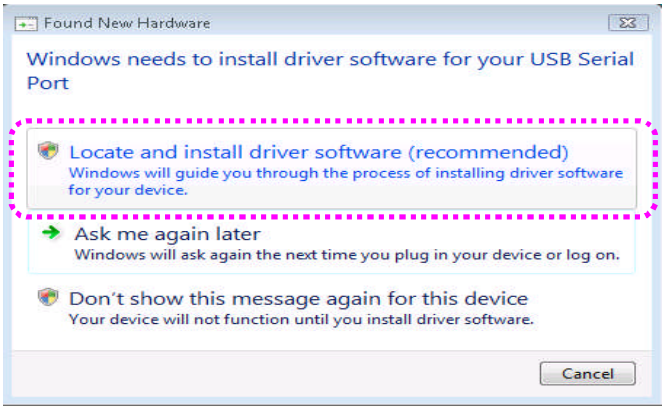
6. Following picture depicts Device Manager after carrying out step 4. As can be seen, all "USB Serial Converters" are successfully installed. The number of lines may vary depending on the product you are using.


Device Manager
File Action View Help
Storage controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801GB USB Universal Host Controller - 27C8
Intel(R) 82801GB USB Universal Host Controller - 27C9
Intel(R) 82801GB USB Universal Host Controller - 27CA
Intel(R) 82801GB USB Universal Host Controller - 27CB
Intel(R) 82801GB USB2 Enhanced Host Controller - 27CC
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter A
USB Serial Converter A
USB Serial Converter B
USB Serial Converter B

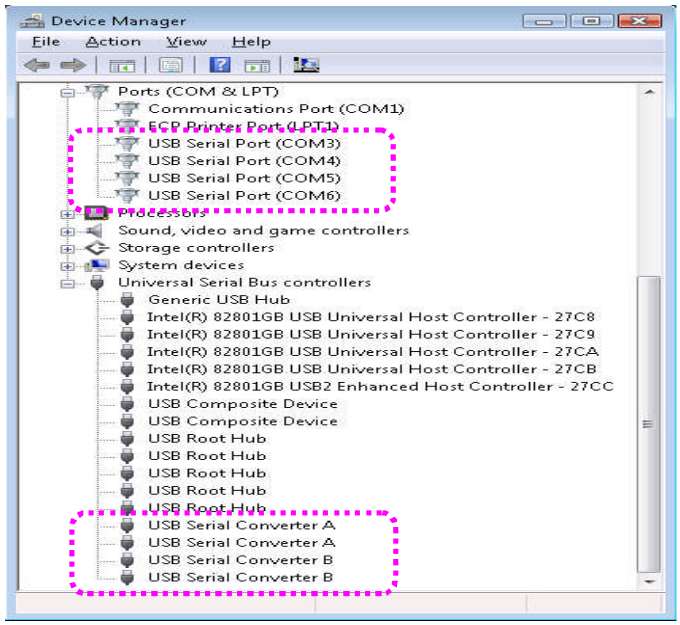
7. Following procedures will guide you through installing “USB Serial Port”. Select ‘Don’t search online’


Found New Hardware - USB Serial Port
Allow Windows to search online for driver software for your USB Serial Port?
Yes, always search online (recommended)
Windows will automatically search for the latest drivers and applications for your hardware and download them to your computer.
Yes, search online this time only
Windows will search for the latest drivers and applications for this device and download them to your computer.
Don't search online
Your device may not function properly until you get the latest software.
Please read Microsoft's privacy statement
Cancel

8. Click “Locate & Install driver software (recommended)” on the “New hardware found” window


Found New Hardware
Windows needs to install driver software for your USB Serial Port
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

9. Following picture depicts “Task Manager” after carrying out step 8. As can be seen, all “USB Serial Converters” and “USB Serial Ports” are successfully installed.


Device Manager
File Action View Help
Ports (COM & LPT)
Communications Port (COM1)
ECP Printer Port (LPT1)
USB Serial Port (COM3)
USB Serial Port (COM4)
USB Serial Port (COM5)
USB Serial Port (COM6)
Processors
Sound, video and game controllers
Storage controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801GB USB Universal Host Controller - 27C8
Intel(R) 82801GB USB Universal Host Controller - 27C9
Intel(R) 82801GB USB Universal Host Controller - 27CA
Intel(R) 82801GB USB Universal Host Controller - 27CB
Intel(R) 82801GB USB2 Enhanced Host Controller - 27CC
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter A
USB Serial Converter A
USB Serial Converter B
USB Serial Converter B

10. “DirectPort-USB” installation on Window Vista/2008 is now finished

9. Manual Driver Installation for Windows 7

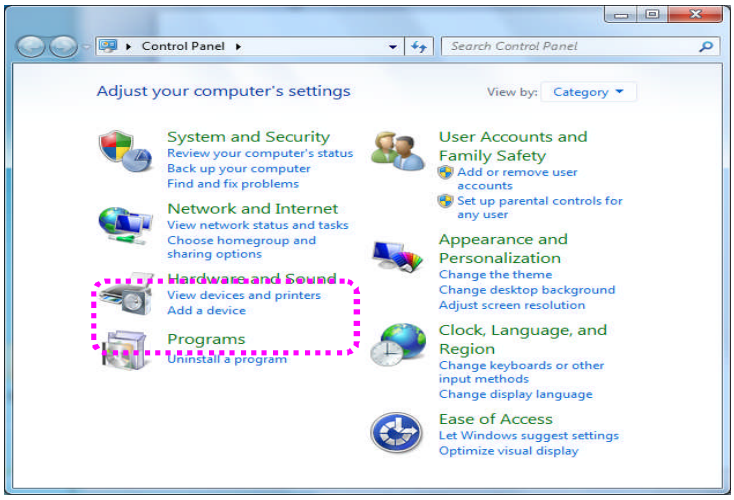
- Install procedures for 64bit drivers are identical to 32bit drivers

1. Run Windows 7

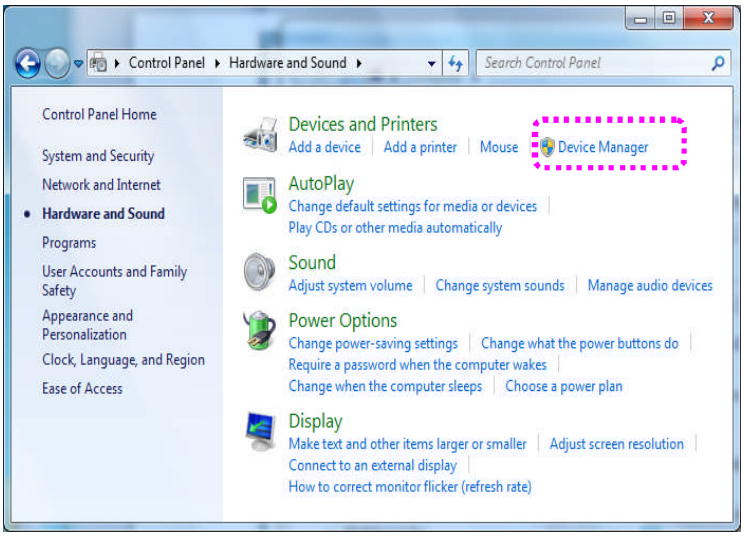
2. Connect DirectPort-USB to your PC's USB port.

3. Insert media CD(provided with DirectPort) into the CD drive

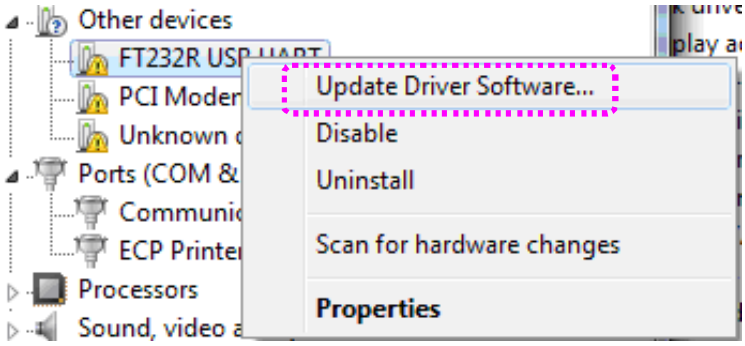
4. Click "Hardware and Sound" in "Control Panel"



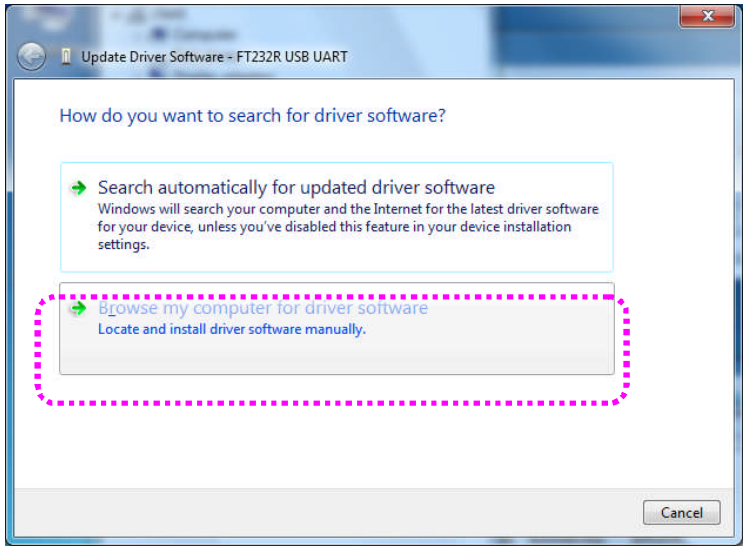
5. Following picture depicts Device Manager after carrying out step 4. Click "Device Manager".



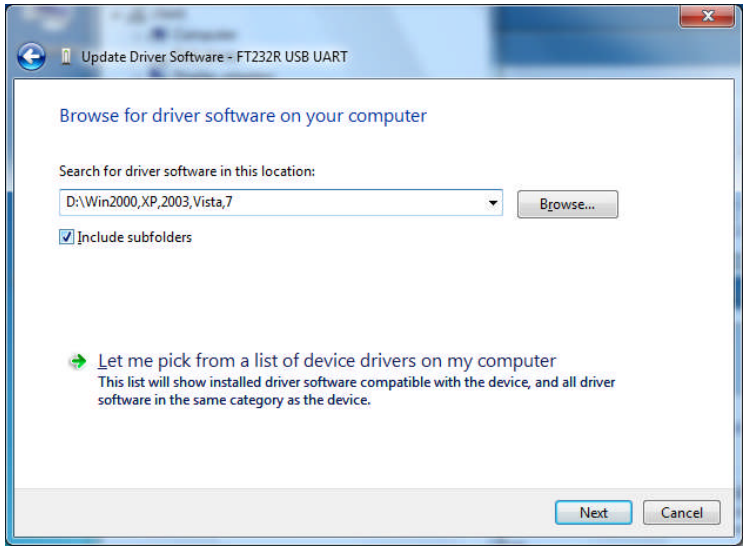
6. Right click “FT232R USB UART” in “Device Manager”. then Choose “Update Driver Software”



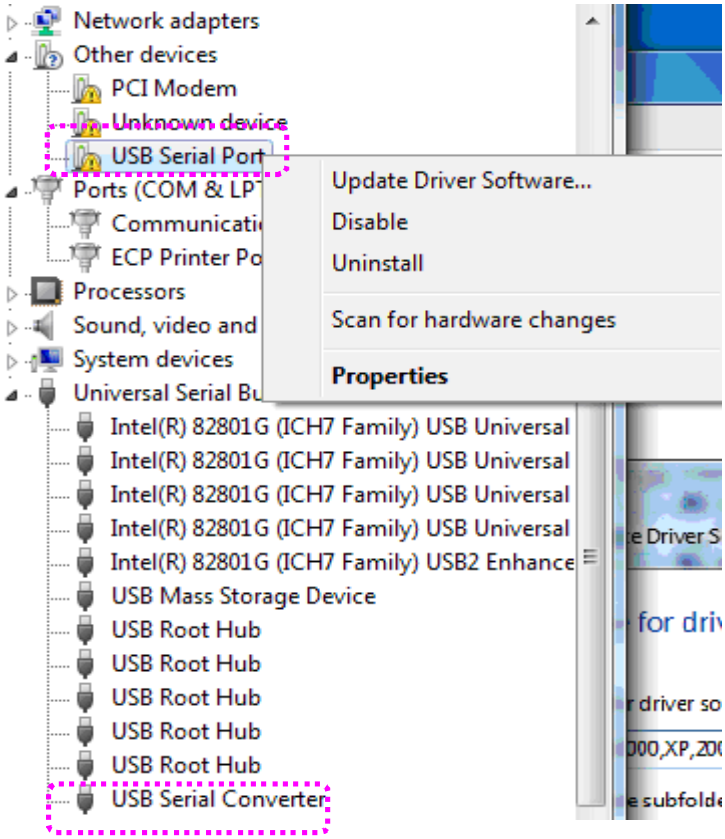
7. Click “Browse my computer for driver software” in order to install driver manually.


Update Driver Software - FT232R USB UART
How do you want to search for driver software?
Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
Browse my computer for driver software
Locate and install driver software manually.
Cancel

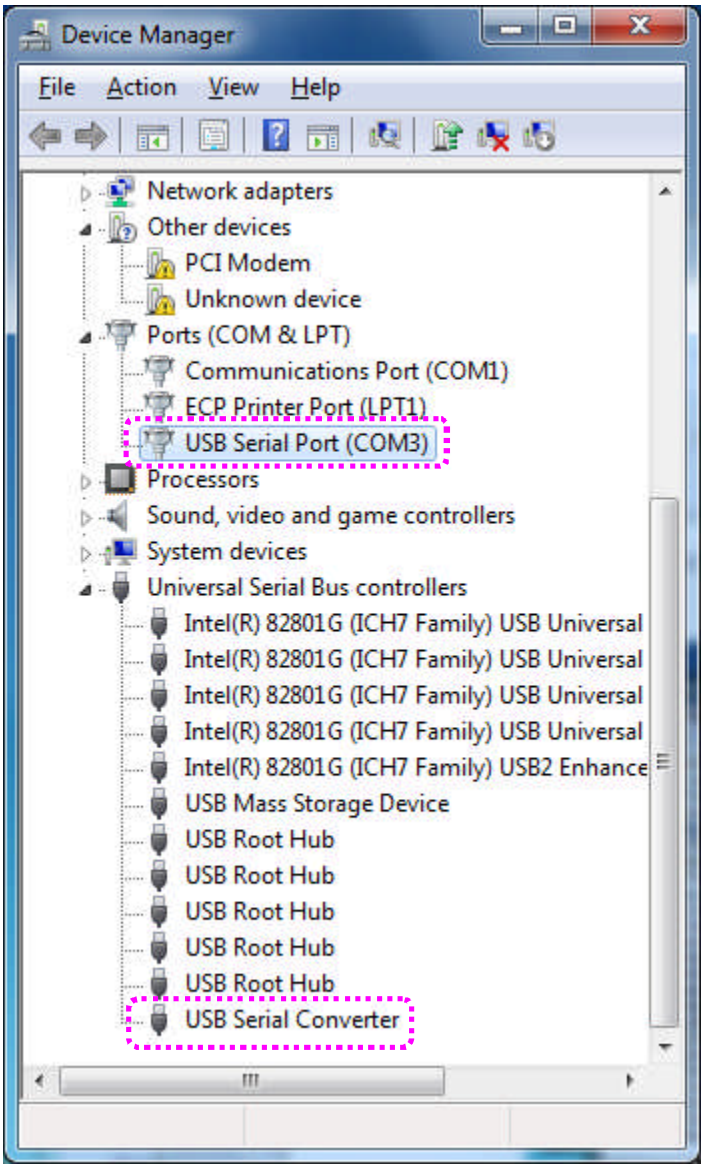
8. Click “Browse” and set driver software’s location to “[CD]:\Win2000,XP,2003,Vista,2008,7”


Update Driver Software - FT232R USB UART
Browse for driver software on your computer
Search for driver software in this location:
D:\Win2000,XP,2003,Vista,7
Browse...
Include subfolders
Let me pick from a list of device drivers on my computer
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
Next
Cancel

9. Confirm that “USB Serial Converter” is installed normally. then, right click "USB Serial Port" and follow the same process from number 6 again.



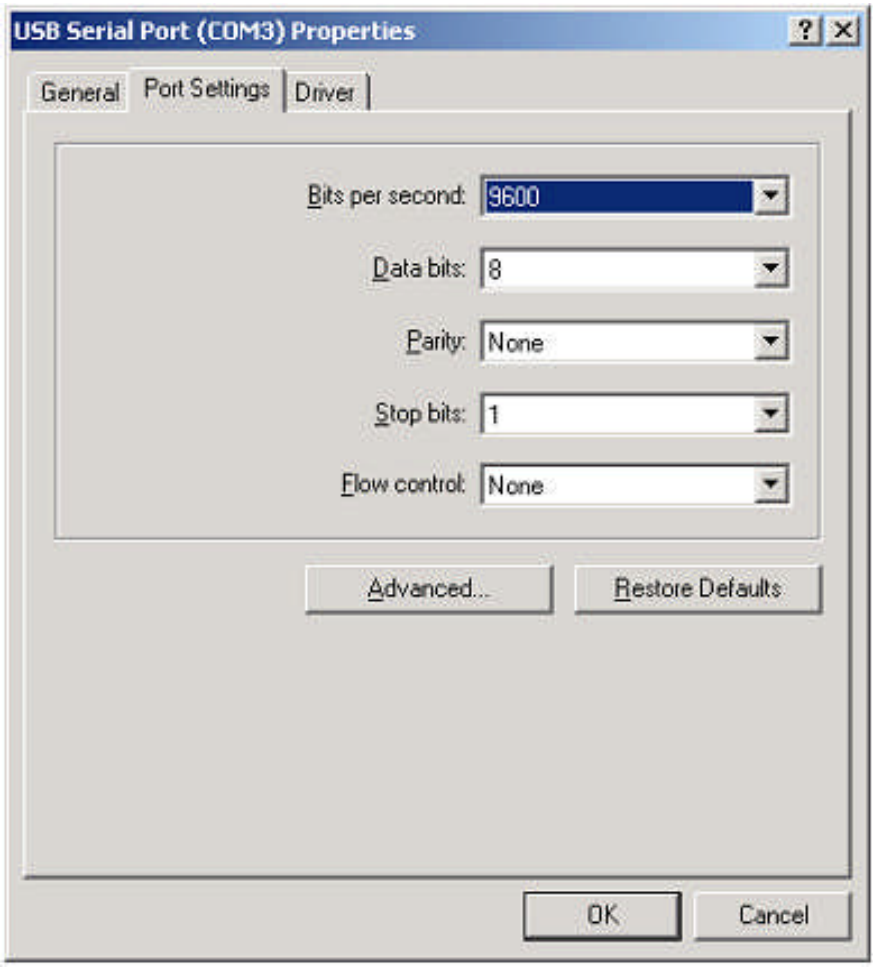
10. Following picture depicts “Device Manager” after carrying out all step. As can be seen, all “USB Serial Converters” and “USB Serial Ports” are successfully installed.



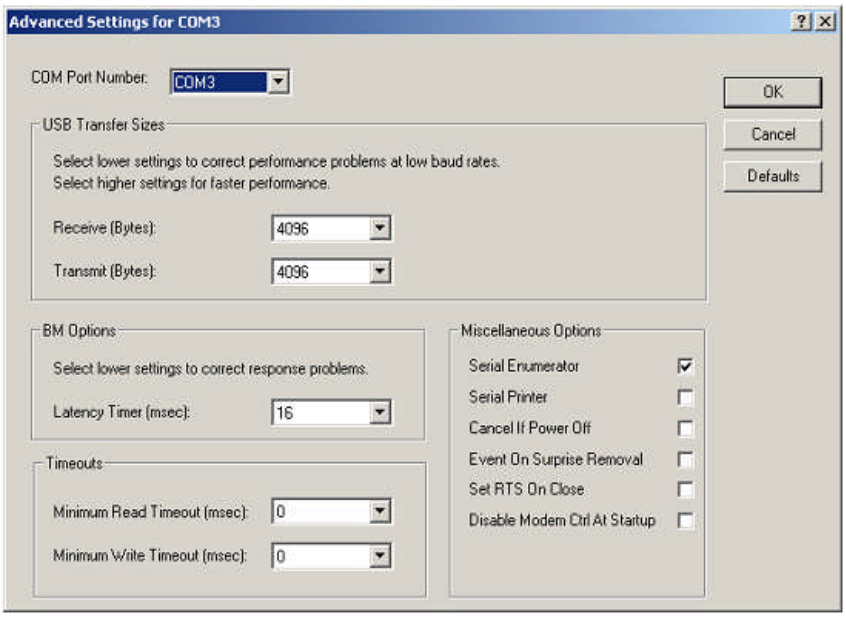
11. “DirectPort-USB” installation on Window 7 is now finished

10. Windows Device Driver Setup

1. An advanced properties page is available for devices using the device. To access the advanced properties page, open "Device Manager" in Control Panel. Find the USB serial port you want to change the properties of and right-click on it. Select "Properties" from the menu then select the "Port Settings" tab to get the window below.



2. This page allows configuration of the basic device parameters (i.e. Baud rate, data bits, parity, stop bits and flow control). To access more advanced settings, click on the "Advanced..." button to display the advanced properties page (shown below).



3. This page will allow the following parameters to be altered:
   - COM port number
   - USB buffer sizes
   - Latency timer
   - Alter this to correct compatibility problems for obsolete applications.
   - Read and write timeout values
   - You can alter this for timing of timeout event if there are no more Tx/Rx data.
   - Miscellaneous options
   - Serial Emulator : The function of the serial enumerator is to detect a Plug-and-Play enabled device (such as a serial mouse or serial modem) that is attached to the USB serial port.
   - Serial Printer : If enabled, serial printer will disable timeouts to allow for long delays associated with paper loading.
   - Cancel If Power Off : The Cancel If Power Off option can be used to assist with problems encountered when going into a hibernate or suspend condition. This will cancel any requests received by the driver when going into hibernate or suspend.
   - Event on Surprise Removal : The Event On Surprise Removal option is generally left unselected. If an application sets SERIAL_EV_EVENT2 (refer Windows DDK) in it's event bitmask and this feature is enabled, the device driver will signal this event on surprise removal.
   - Set RTS on Close : Selecting the Set RTS On Close option will set the RTS signal on closing the port.
   - Disable Modem Control at Startup : This option is used to control the modem control signals DTR and RTS at startup. In normal operation, the modem control signals at startup follow the behavior of the legacy port. However, due to timing differences between a legacy COM port and a virtual COM port, a "spike" on one of these signals in the legacy port can appear as an assertion of the signal in the virtual COM port.
   - Devices that monitor these signals can enter the wrong state after an unplug-replug cycle on USB. Note that if the "Serial Enumerator" option in the property page is selected, then the

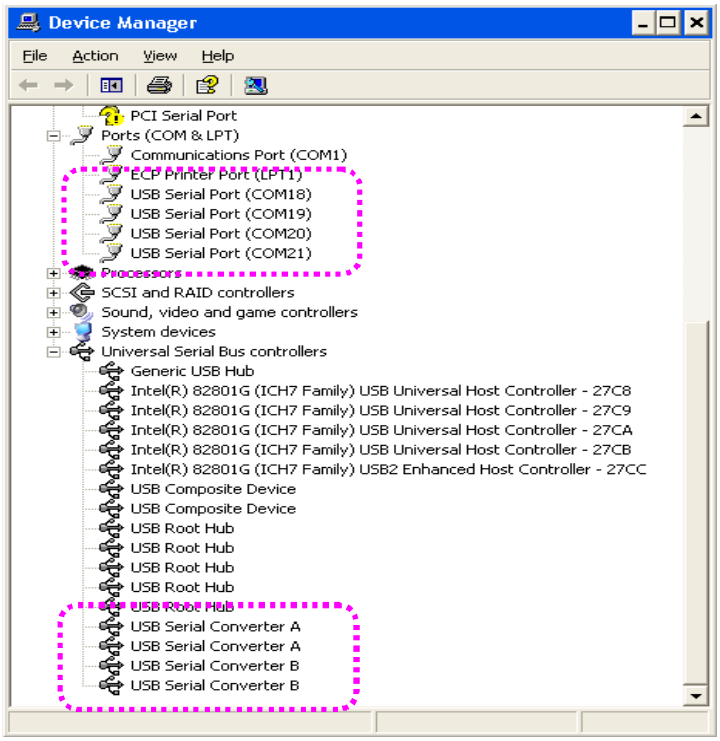
enumeration sequence causes the modem control signals to change at startup. So if it is necessary to select "Disable Modem Ctrl At Startup", then it is likely that "Serial Enumerator" should be unchecked in the property page.

Don't adjust these parameters if you can use the device normally. If not, please contact us (support@sena.com) about these parameters first.

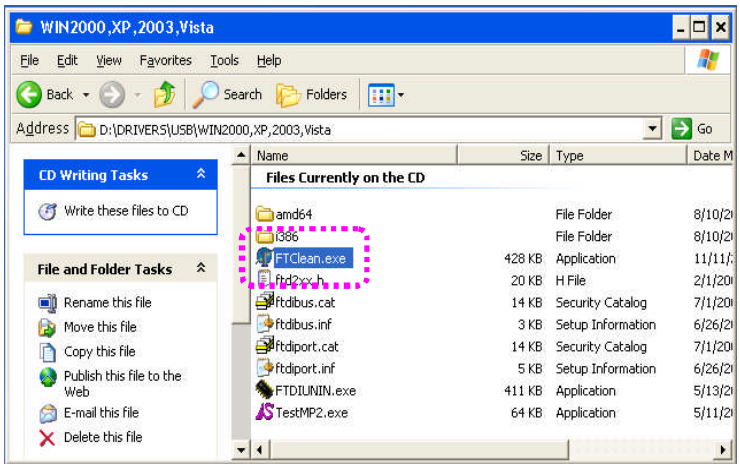
11. Removing Windows 98/2000/XP/2003 Driver

- DirectPort-USB will be removed after all removal processes are completed.

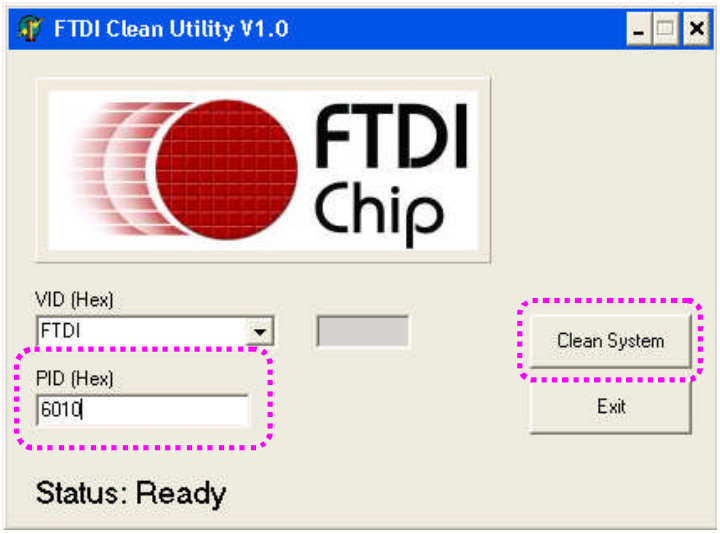
1. Execute “Task Manager”. “USB Serial Converter A/B” controllers and “USB Serial Port (COM3~6)” Serial Ports can be seen. The number of ports may vary depending on the product you are using. These devices must all be removed.


Device Manager
File Action View Help
PCI Serial Port
Ports (COM & LPT)
Communications Port (COM1)
ECP Printer Port (LPT1)
USB Serial Port (COM18)
USB Serial Port (COM19)
USB Serial Port (COM20)
USB Serial Port (COM21)
Processors
SCSI and RAID controllers
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter A
USB Serial Converter A
USB Serial Converter B
USB Serial Converter B

2. Insert install CD in the CD-Rom. Open the folder named “Win2000,XP,2003,Vista,2008,7”.



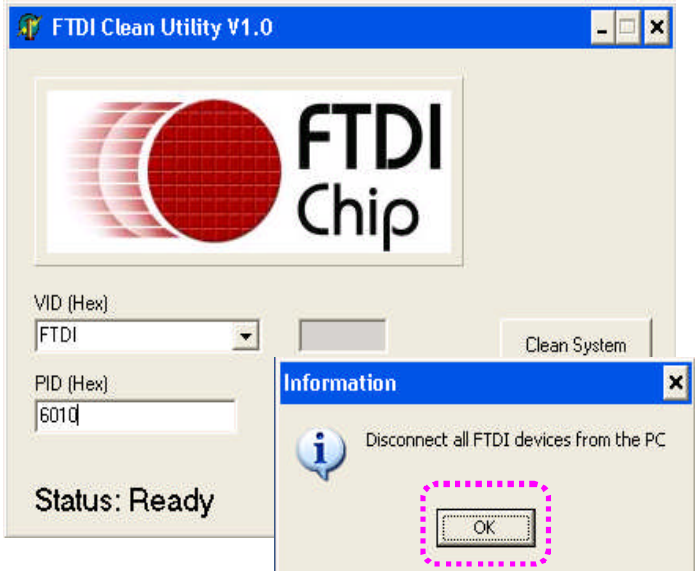
3. Execute “FTClean.exe”. Type the correct PID under “PID(Hex)” box, and then click “Clean System”.



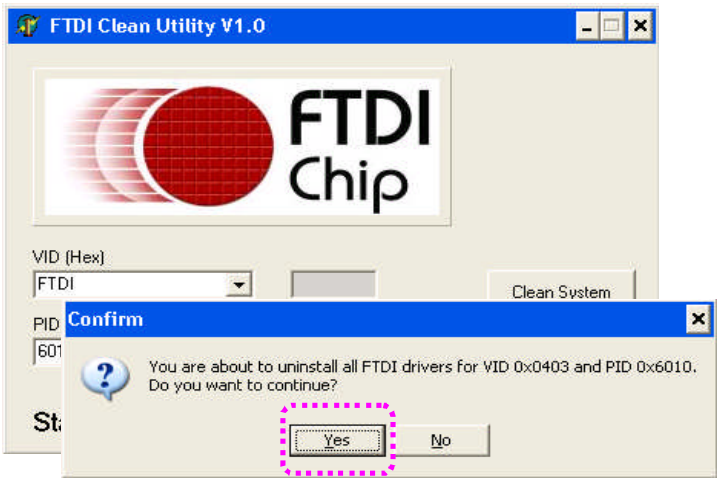
“PID” refers to the Product ID

- **Multi-1 PID: 6001**
- **Multi-4/8 PID: 6010**

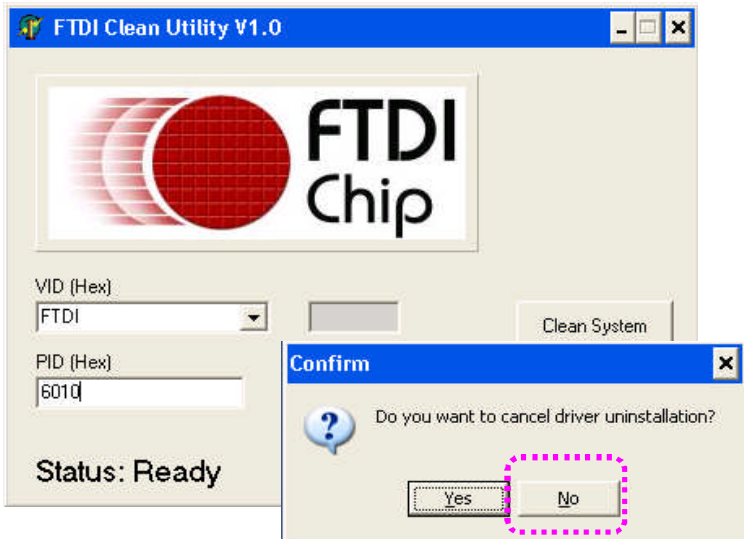
4. Click “OK”.



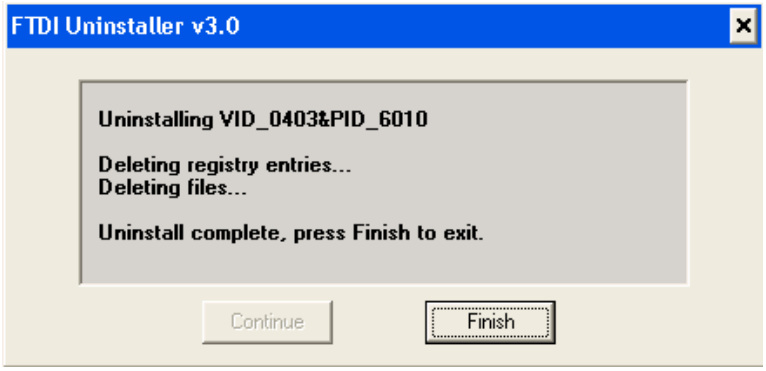
5. Click “Yes”.



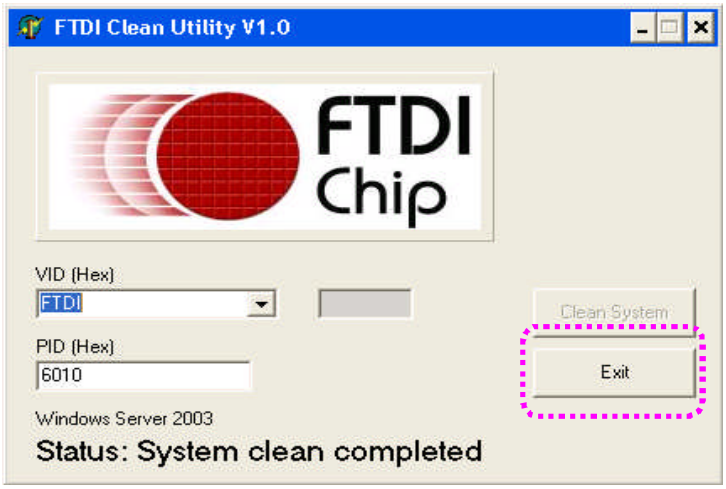
6. Click “No”.



7. “FTDI Uninstaller v3.0” window will appear & disappear several times. This is a normal uninstall process so wait until this window does not appear.



8. Driver removal is completed when the following window(FTDI Clean Utility) remains activated without any action.



9. Remove DirectPort-USB from USB connection port.

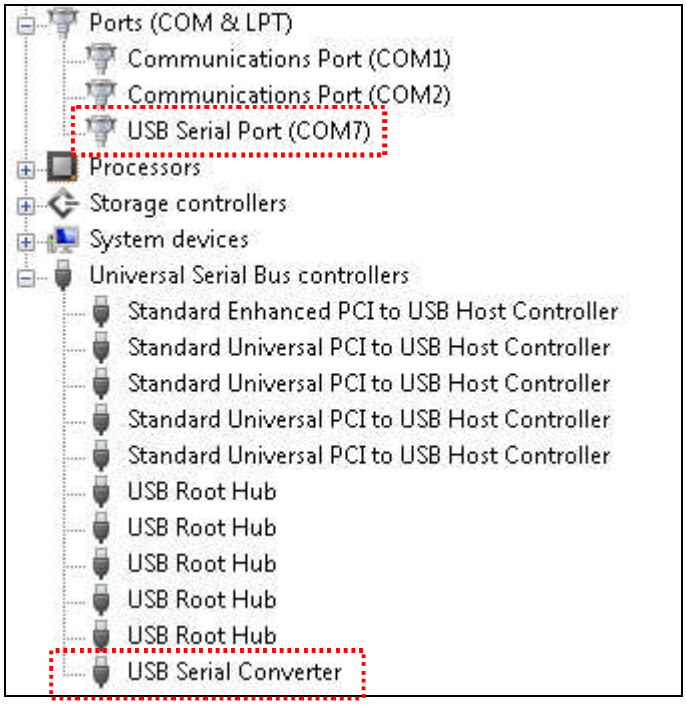
10. The driver removal process is now completed.

12. Removing Windows Vista/2008/7 Driver

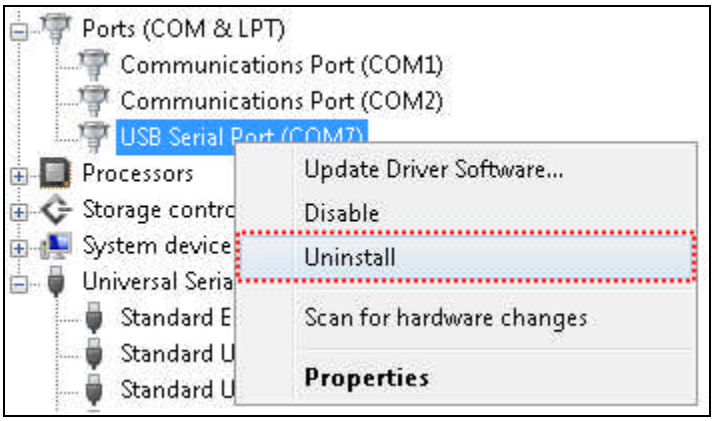
- Please note that device driver removal procedure under Windows Vista/2008/7 is different from other Window versions.

1. Execute “Device Manager”. Do not remove DirectPort-USB from USB port. DirectPort-USB will be removed after all removal processes are completed.

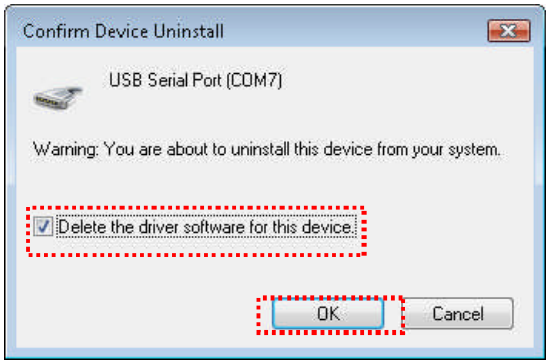
2. “USB Serial Converter” controllers and “USB Serial Port(COM#)” serial ports can be found.


Ports (COM & LPT)
Communications Port (COM1)
Communications Port (COM2)
USB Serial Port (COM7)
Processors
Storage controllers
System devices
Universal Serial Bus controllers
Standard Enhanced PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Serial Converter

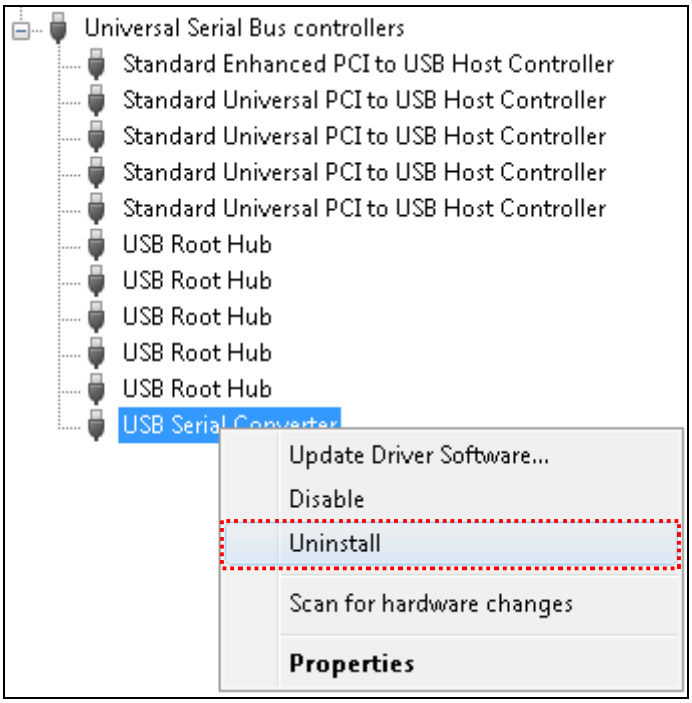
3. Find ‘USB Serial Port(COM#)’ under “Ports (COM & LPT)”. Right click on “USB Serial Port” and Click “Uninstall”.



4. Check the following check box, and click “OK”.


Confirm Device Uninstall
USB Serial Port (COM7)
Warning: You are about to uninstall this device from your system.
Delete the driver software for this device.
OK
Cancel

5. “USB Serial Port” removal is now completed. We will now continue with “USB Serial Converter” removal. Right click on the “USB Serial Converter” and click “Uninstall”.


Universal Serial Bus controllers
Standard Enhanced PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
Update Driver Software...
Disable
Uninstall
Scan for hardware changes
Properties

6. Check the “check box” and click “OK”.

Confirm Device Uninstall
USB Serial Converter
Warning: You are about to uninstall this device from your system.
Delete the driver software for this device.
OK
Cancel

7. DirectPort-USB drivers are now completely removed from your system.

13. Regulatory Information

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Declaration of Conformity

We, Sena Technologies, Inc., 210 YangJae-dong, SeoCho-gu, Seoul 137-130, Korea, declare that the product(s):

- DirectPort-USB UC1 USB-RS232 Serial Converter
- DirectPort-USB UC1B USB-RS422/485 Serial Converter

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

- EN 55022 : 2006
- EN61000-3-3:1995 +A1:2001, +A2:2005
- EN55024:1998 +A1:2001, +A2:2003

following the provisions of

- EMC DIRECTIVE 2004/108/EC